#### DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

## WELDING INSPECTION REPORT

Resident Engineer: Siegenthaler, Peter **Report No:** WIR-024224 Address: 333 Burma Road **Date Inspected:** 01-Jun-2011

City: Oakland, CA 94607

**OSM Arrival Time:** 1900 **Project Name:** SAS Superstructure **OSM Departure Time:** 700 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

**CWI Name:** See below **CWI Present:** Yes No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No **Weld Procedures Followed:** Yes No N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A N/A Yes N/A **Approved Drawings:** Yes No **Approved WPS:** No Yes N/A **Delayed / Cancelled:** No

34-0006 **Bridge No: Component:** OBG

### **Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance (QA) Inspector, Kelly Leavitt, was present during the times noted above for random observations relative to the work being performed.

#### Trial Assembly

This QA Inspector observed the following work in progress for Trial Assembly.

ZPMC was using the Shielded Metal Arc Welding (SMAW) process.

ZPMC QC is identified as Zhang Lin.

Welding variables recorded by QC appeared to comply with the approved Welding Procedure Specification (WPS).

Listed below are the locations that were identified by this QA inspector.

Components; OBG 13BE

PCMK: AH3151 Weld No: 075 Welder: 044772

WPS-B-P-2114-TC-U4b-FCM-1

This QA Inspector observed the following work in progress for Trial Assembly.

ZPMC was using the Flux Core Arc Welding (FCAW) process.

ZPMC QC is identified as Zhang Lin.

Welding variables recorded by QC appeared to comply with the approved Welding Procedure Specification (WPS). Listed below are the locations that were identified by this QA inspector.

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Components; OBG PCMK: SA6002C Weld No: 005,006 Welder: 069469

WPS-B-T-2232-ESAB

Components; OBG PCMK: SA6003C Weld No: 005,006 Welder: 069469

WPS-B-T-2232-ESAB

Components; OBG PCMK: SA6003D Weld No: 007,008 Welder: 069469

WPS-B-T-2232-ESAB

Components; OBG PCMK: SA3128B Weld No: 004~006 Welder: 055564

WPS-B-T-2232-ESAB

This QA Inspector observed the following work in progress for Trial Assembly.

ZPMC was using the Shielded Metal Arc Welding (SMAW) process.

ZPMC QC is identified as Wang Xiang Pin.

Welding variables recorded by QC appeared to comply with the approved Welding Procedure Specification (WPS). Listed below are the locations that were identified by this QA inspector.

Components; OBG 13AE PCMK: SEG3007AH

Weld No: 063

Welder: 200113, 068859

WPS-B-P-2114-TC-U4b-FCM-1

Components; OBG 14W + 13CW

PCMK: DP3148-001

Weld No: 275 Welder: 067275

WPS-B-P-2114-TC-U4b-FCM-1

Components; OBG 14W + 13CW

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PCMK: DP3172-001

Weld No: 017 Welder: 067275

WPS-B-P-2114-TC-U4b-FCM-1

This QA Inspector observed the following work in progress for Trial Assembly.

ZPMC was using the Flux Core Arc Welding (FCAW) process.

ZPMC QC is identified as Wang Xiang Pin.

Welding variables recorded by QC appeared to comply with the approved Welding Procedure Specification (WPS). Listed below are the locations that were identified by this QA inspector.

Components; OBG 13AW

PCMK: SA6003A Weld No: 003,004 Welder: 069469

WPS-B-T-2231-ESAB

Components; OBG 13AW

PCMK: SA6004A Weld No: 003,004 Welder: 069469

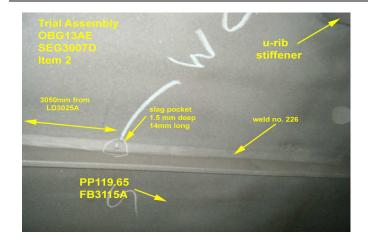
WPS-B-T-2231-ESAB

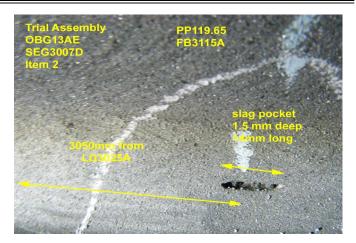
This Caltrans QA Inspector performed a pre-blast visual inspection in OBG13AE. This inspection included the bottom surface of Deck Plates DP3073, DP3074, DP3075, DP3076, and approximately 1500mm of the top sides of all Floor Beams and Diaphragms between Panel Point 119 + 1500 through 120 and Longitudinal Diaphragm LD3025A through Longitudinal Bulkhead SA3093A. Surface defects and base metal surface irregularities that required grinding were marked up with colored chalk, and weld defects that require welding were taped with gray masking tape for repair after the coating has been applied. ZPMC QC and ABF inspection personnel were present during the inspection and informed of QA findings. (see photos)

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

# WELDING INSPECTION REPORT

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## **Summary of Conversations:**

"No relevant conversations."

### **Comments**

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact James Devey 1500026784, who represents the Office of Structural Materials for your project.

<b>Inspected By:</b>	Leavitt,Kelly	Quality Assurance Inspector
Reviewed By:	Riley,Ken	QA Reviewer